
Lab Dept: Serology

Test Name: ANTITHYROGLOBULIN ANTIBODY

General Information

Lab Order Codes: ATA

Synonyms: Thyroglobulin Antibody

CPT Codes: 86800 – Thyroglobulin antibody

Test Includes: Thyroglobulin antibody reported in IU/mL.

Logistics

Test Indications: Primary use: Identification of potentially unreliable serum Tg measurements in the follow-up of patients with differentiated follicular-cell derived thyroid carcinomas.

Secondary use: As an adjunct to anti-thyrotropin and thyroid-stimulating immunoglobulin measurements in the diagnosis of autoimmune thyroid disease: Hashimoto disease, Postpartum thyroiditis, Neonatal hypothyroidism, Graves disease

Lab Testing Sections: Serology - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: TGAB)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 3 days, performed Monday - Saturday

Special Instructions: If Thyroglobulin Tumor Marker, Serum, is desired, DO NOT order this test. See [Thyroglobulin Tumor Marker](#) which includes both thyroglobulin and thyroglobulin antibody. **Red No Gel tube required.** See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Red top (no gel) tube

Draw Volume: 1.8 mL (Minimum: 1.5 mL) blood

Processed Volume: 0.6 mL (Minimum: 0.5 mL) serum

Note: Submission of the minimum volume will not allow for repeat analysis and could result in a QNS (quantity not sufficient) result.

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: Twelve hours before this test, do not take multivitamins or dietary supplements containing biotin or vitamin B7.

Sample Rejection: Gross hemolysis; mislabeled or unlabeled specimens; specimens collected in gel tubes

Interpretive

Reference Range:	All ages: <4.0 IU/mL
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Critical Values: N/A

Limitations: Antithyroglobulin and antithyroid peroxidase values determined by different methodologies might vary significantly and cannot be directly compared with one another. Some patients might show to be antibody-positive by some methods and antibody-negative by others. Comparing anti-Tg and anti-TPO antibody values from different methods might lead to erroneous clinical interpretation.

Methodology: Immunoenzymatic Assay

References: [Mayo Medical Laboratories](#) April 2016

Updates:

2/11/2008: Reference range update, previously listed as <1:100
 Method update: Previously listed as Gelatin Particle Agglutination
 5/3/2010: Updated specimen volumes
 1/27/2011: Due to reagent issues at MML, they are now forwarding this testing to Quest. Note the new reference range, change in preferred draw volume and store/ship temperature.
 2/3/2011: Back to refrigerated.
 4/12/2011: Testing returned to Mayo. New method, new reference range (previously listed as <20 IU/mL).
 10/6/2014: New method and reference range. Range previously listed as <116 IU/mL.
 4/6/15: Draw volume update.